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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/761,547	01/20/2004	Arthur E. Alacar	2003-1101	2850	
Kyocera Technology Development Intellectual Property Administration Suite 400 1855 Gateway Blvd.			EXAMINER		
			DHINGRA, PAWANDEEP		
			ART UNIT	PAPER NUMBER	
	Concord, CA 94520			2625	
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			12/12/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summary	10/761,547	ALACAR, ARTHUR E.				
Office Action Summary	Examiner	Art Unit				
	PAWANDEEP S. DHINGRA	2625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>06 Oc</u>	ctoher 2008					
·— · · · · · · · · · · · · · · · · · ·	action is non-final.					
	· 					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachassatta						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) L Other:						

DETAILED ACTION

 This action is responsive to the following communication: Request for Continued Examination (RCE) filed on 10/06/2008.

• Claims 1-22 are pending in the present application.

Response to arguments

Applicant's amendments, filed 10/06/2008 have been entered and fully considered. In light of the applicant's amendments, the rejection(s) have been withdrawn. However, upon further consideration, a new ground(s) of rejection(s) have been made.

However, examiner would still respond to applicant's arguments, filed 10/06/2008, which have been fully considered but are not persuasive.

Applicant argues that Kemp fails to disclose providing a GUI in a post-installer wizard that presents a list of least one available plug-in module for selecting at least one plug-in module.

In reply, the examiner asserts that Kemp discloses providing a GUI (user interface, see figures 2-3, 7-8) in a post-installer wizard that presents a list of least one available plug-in module (see figure 8; paragraphs 21, 73-74) for selecting at least one plug-in module (see figure 8; paragraph 74, note that a list of three available plug-ins modules are identified and displayed in figure 8 and user can select any of the three displayed plug-ins by highlighting it (as shown) and by clicking ok or apply button in figure 8) (also see paragraphs 45-58 and figure 10).

Kemp further discloses of providing a GUI (user interface, see figures 1-2) in a post-installer wizard that presents a list of least one available plug-in module for selecting at least one plug-in module (see S901-905, figure 9; paragraphs 21, 75-78).

Applicant further argues that Nguyen fails to teach providing a heap area within private devmode structures.

In reply, examiner asserts that Iida has shown to teach the above argued feature (see discussion of claim 1 below). Furthermore, Nguyen has also shown to teach the above argued feature (see discussion of claim 1 below).

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., "heap is a private devmode area") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/06/2008 has been entered.

Claim Objections

1. Claims 1, 15 and 19 are objected to because of the following informalities:

In claims 1, 15 and 19, "list of least" in line 2 should be replaced with "list of at least". Appropriate corrections are required.

Examiner Notes

Examiner cites particular paragraphs, columns and line numbers in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-12, and 14-22 are rejected under 35 U.S.C. 103 as being unpatentable over Kemp el al., US 2003/0200427 in view of lida et al. US 2003/0079063 further in view of Nguyen el al., US 6,825,941.

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Re claim 1, Kemp et al. discloses a method for augmenting a printer driver (see paragraphs 45-47, 50), comprising: providing a GUI (user interface, see figures 2-3, 7-8) in a post-installer wizard that presents a list of least one available plug-in module (see figure 8; paragraphs 21, 73-74) for selecting at least one plug-in module (see figure 8; paragraph 74, note that a list of three available plug-ins modules are identified and displayed in figure 8 and user can select any of the three displayed plug-ins by highlighting it (as shown) and by clicking ok or apply button in figure 8) (also see paragraphs 45-58 and figure 10). Kemp further discloses of providing a GUI (user interface, see figures 1-2) in a post-installer wizard that presents a list of least one available plug-in module for selecting at least one plug-in module (see S901-905, figure 9; paragraphs 21, 75-78); and dynamically adding (installing) the at least one plug-in module to the printer driver (see S905-S910; paragraphs 75-78).

Kemp fails to disclose providing a heap area within private devmode structures; wherein adding of each of the at least one plug-in module results in allocating and initializing by a printer driver of a private devmode structure in the heap area only when necessary to accomplish loading for UI display and printing, and wherein later removing of each of the at least one plug-in module results in deallocation of the corresponding private devmode structure in the heap area only when necessary to accomplish loading of a printer driver.

lida et al. teaches providing a heap area within private devmode structures (see figure 5; paragraphs 41-44, note that the area after stamp in private section,

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labeled with dots is a heap area (free area) provided within the private devmode, see figure 5).

Nguyen et al. teaches wherein adding of each of the at least one plug-in module (column 5, lines 7-30; column 8, lines 4-25; column 9, line 10 - column 10, line 60) results in allocating and initializing by a printer driver of a private devmode structure in the heap area only when necessary to accomplish loading for UI display and printing (see column 14, line 65-column 22, line 26; column 24, line 44-column 25, line 47; Column 30, lines 21-59) and wherein later removing of each of the at least one plug-in module results in deallocation of the corresponding private devmode structure in the heap area only when necessary to accomplish loading of a printer driver (see column 14, line 65-column 22, line 26; column 24, line 44-column 25, line 47; Column 30, lines 21-59). Nguyen et al. also further teaches providing a heap area within private devmode structures (note that the driver supplies the memory heap for the OEM and devmode structures, devmode 90, are part of the driver. And heap area (extra data/area) is providing within private devmode structures, which is stored within devmode 90 of figure 9, see figures 9, 12-14; column 15, line 11-column 17, line 5; column 20, lines 20-37).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention to include the Devmode memory organization of lida and extensible driver architecture of Nguyen into the extensible device driver of Kemp et al. for the benefit of providing a user-friendly data processing apparatus and method as taught by lida at paragraph 7, and allowing "OEM's to plug in special"

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code for customizing the UI, bitmap handling, font and text processing, and general printer control ...utilizing "a flexible modular architecture which allows enhancements to the driver to be implemented to provide better support for more varieties of output devices, and to improve the output quality, ease of use and performance without the necessity for redesign" as taught by Nguyen at column 3, lines 20-47.

Re claim 2, Kemp et al. further discloses the adding (installing or entering) of the at least one plug-in module comprises copying at least one plug-in DLL file (dynamic link library file) to a printer system folder (system memory) (see paragraph 75-78 and paragraph 19 & 51-52, note that "the device driver module and the driver plug-in module are each preferably comprised of a dynamic link library file", hence it is apparent that for adding new plug-in module to the existing print driver of printer, the plug-in files in the form DLL get copied into the system folder of the printer).

Re claim 3, Kemp et al. further discloses the adding of the at least one plug-in module comprises checking compatibility (checking if plug-in module is supported) of at least one plug-in DLL file with the printer driver (see figures 6A-6B; paragraphs 70-72, note that the found plug-in is checked to see if it is supported (compatible) with the interface of existing printer driver, and if it is than it gets sent (S613-S614) and eventually appears as available in S903 for further processing as shown in figure 9. Also, see paragraphs 18-19 and note that "the device driver module and the driver plug-in module are each preferably comprised of a dynamic link library file", hence it is apparent that the DLL files of

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the plug-in are checked for compatibility (supportiveness) with the interface of printer driver).

Re claim 4, Kemp et al. further discloses the adding of the at least one plug-in module comprises the at least one plug-in module installing itself (see paragraph 76, note that plug-in can be selected automatically (without user interaction), and if at S906 it is also determined by the process flow that no preplug-in exists (without user interaction) then in this case, the process flow will jump to S910, and plug-in module will be installed itself (automatically, without any user interaction).

Re claim 5, Kemp et al. further discloses the adding of the at least one plug-in module comprises adding at least one registry entry (see paragraphs 75-78).

Re claim 6, Kemp fails to further disclose that the adding of the at least one plug-in module comprises heap-allocating and initializing at least one private devmode structure.

However, Nguyen et al. discloses that the adding of the at least one plugin module to the printer driver (see column 5, lines 7-30; column 8, lines 4-25; column 9, line 10 - column 10, line 60) comprises heap-allocating (allocating memory heap) (see column 20, line 20 - column 21, line 60) and initializing at least one private devmode structure (see column 14, line 65-column 21, line 60).

Re claim 7, Kemp fails to further disclose the heap is a private devmode area following a public devmode area.

lida et al. teaches the heap is a private devmode area following a public devmode area (see figure 5; paragraphs 41-44).

Nguyen et al. discloses the heap is a private devmode area following a public devmode area (see column 14, line 65-column 21, line 60).

Re claim 8, Kemp fails to further disclose the heap is fixed size.

lida et al. teaches the heap is fixed size (see figure 5; paragraphs 41-44).

However, Nguyen et al. discloses the heap (memory) is fixed size (see column 38, lines 40-62).

Re claim 9, Kemp fails to further disclose each of the at least one private devmode structure corresponds to each of the at least one plug-in module added, each of which implements an optional feature selected from the group consisting of feature sets, Page Description Languages (PDLs), and Renders.

However, Nguyen et al. discloses each of the at least one private devmode structure corresponds to each of the at least one plug-in module added (see column 14, line 65-column 21, line 60), each of which implements an optional feature selected from the group consisting of feature sets, Page Description Languages (PDLs) (i.e. PCL), and Renders (see column 3, lines 20-37; column 8, lines 4-25; note that the architecture of Nguyen is very extensible and makes it implement new features including supporting PCL commands).

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Re claim 10, Kemp et al. further discloses providing a GUI (user interface, see figures 2-3, 7-8; paragraph 13) by which a user selects at least one plug-in module (see S904, figure 9; paragraph 76, note that selection can be manual by a user) (also see figures 2-10); and removing (deleting) the at least one plug-in module from the printer driver (see paragraphs 77-78, note that "in step S906, it is determined whether a pre-existing plug-in module has already been registered in registry 41 which is of the same type, or same name, as the selected plug-in module. If so, flow passes to step S907 in which the user of computer 10 is notified of the situation, and it is then determined in step S908 whether the user has instructed to proceed with installation of the selected plug-in module by replacing, or renaming, the pre-existing plug-in module. If the user opts for replacement (or renaming), flow passes to step S909 in which the pre-existing plug-in module is deleted or renamed, as the case may be").

Re claim 11, Kemp fails to further disclose the removing of the at least one plug-in module comprises deallocating at least one private devmode structure.

However, Nguyen et al. discloses the removing (replacing) of the at least one plug-in module (plug-in nodes) comprises deallocating (disposing) at least one private devmode structure (heap, note that devmode structures are allocated in the memory heap) (see column 20, lines 20-37; column 16, lines 42-63).

Re claim 12, Kemp et al. further discloses the at least one plug-in module is stored at a remote storage (server 30's fixed disk) on the network (see paragraphs 42, and 53).

Re claim 14, Kemp et al. further discloses the adding of the at least one plug-in module comprises adding at least one GUI (user interface) tab for the added (detected) at least one plug-in module (see figures 7-8 & 10; paragraph 80).

Re claim 15, claim 15 recites identical features, as claim 1, except claim 15 merely deals with executing the method of claim 1 on a computer. Thus, arguments made for claim 1 are applicable for claim 15.

Re claim 16, claim 16 recites identical features, as claims 2, 3, and 5, except claim 16 merely deals with executing the method of claims 2, 3, and 5 on a computer. Thus, arguments made for claims 2, 3, and 5 are applicable for claim 16.

Re claim 17, claim 17 recites identical features, as claim 6, except claim 17 merely deals with executing the method of claim 6 on a computer. Thus, arguments made for claim 6 are applicable for claim 17.

Re claim 18, claim 18 recites identical features, as claim 12, except claim 18 merely deals with executing the method of claim 12 on a computer. Thus, arguments made for claim 12 are applicable for claim 18.

Re Claim 19, claim 19 recites identical features, as claim 1, except claim 19 is an apparatus claim. Thus, arguments made for claim 1 are applicable for claim 19.

Re Claim 20, claim 20 recites identical features, as claims 2, 3, and 5, except claim 20 is an apparatus claim. Thus, arguments made for claims 2, 3, and 5 are applicable for claim 20.

Re Claim 21, claim 21 recites identical features, as claim 6, except claim 21 is an apparatus claim. Thus, arguments made for claim 6 are applicable for claim 21.

Re Claim 22, claim 22 recites identical features, as claim 12, except claim 22 is an apparatus claim. Thus, arguments made for claim 12 are applicable for claim 22.

4. Claim 13 is rejected under 35 U.S.C. 103 as being unpatentable over Kemp et al., US 2003/0200427 in view of Iida et al. US 2003/0079063 further in view of Nguyen et al., US 6,825,941 further in view of Nakao, US 2002/0035941.

Re claim 13, Kemp et al. further discloses the adding of the at least one plug-in module comprises checking at least one registry entry (registry 41) for at least one added (registered) plug-in module (see figure 9; paragraphs 77-78); and copying at least one DLL file corresponding (relating) to the at least one plug-in module (plug-in module is comprised of DLL files (as explained above, earlier), hence DLL files relate to plug-in module) from a server (server 30) to a client (computer 10) (see paragraph 42).

Kemp fails to explicitly disclose copying at least one file corresponding to the added at least one plug-in module from a server to a client

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However, Nakao discloses copying at least one file corresponding to the added at least one module from a server to a client (see paragraphs 67-68, note that if there has been change in the registration settings file (i.e. change also could be due to a addition of a module, for instance), then upon user's request, the updates are downloaded from the server to the client corresponding to the change (i.e. added module)).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention to include the Devmode memory organization of lida, extensible driver architecture of Nguyen, and data processing apparatus of Nakao into the extensible device driver of Kemp et al. for the benefit of providing a user-friendly data processing apparatus and method as taught by lida at paragraph 7, allowing "OEM's to plug in special code for customizing the UI, bitmap handling, font and text processing, and general printer control ...utilizing "a flexible modular architecture which allows enhancements to the driver to be implemented to provide better support for more varieties of output devices, and to improve the output quality, ease of use and performance without the necessity for redesign" as taught by Nguyen at column 3, lines 20-47, and "registering print-settings on a printer driver which is a software for controlling a printer" as taught by Nakao at paragraph 1.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAWANDEEP S. DHINGRA whose telephone

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number is (571) 270-1231. The examiner can normally be reached on M-F, 9:30-

7:00.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, David K. Moore can be reached on (571) 272-7437. The

fax phone number for the organization where this application or proceeding is

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/P. D./

Examiner, Art Unit 2625

/David K Moore/

Supervisory Patent Examiner, Art Unit 2625